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## CLAIM AMENDMENTS

Please replace all prior versions of the claims with the following listing of the revised claims.

1. (currently amended) A dilation catheter comprising:  
an elongate catheter body with at least one lumen; and  
a medical balloon disposed about a portion of the elongate catheter body in fluid communication with the lumen, the medical balloon comprising:  
a proximal region and a distal region;  
a balloon working length intermediate the proximal region and the distal region;  
a proximal working length-to-taper transition;  
wherein the proximal working length-to-taper transition comprises a radius before inflation from:  
0.97 to 3.3 mm when the balloon has a working length diameter of about 3 mm,  
1.8 to 4.7 mm when the balloon has a working length diameter of about 4 mm,  
2.4 to 6.4 mm when the balloon has a working length diameter of about 5 mm,  
3.5 to 8.3 mm when the balloon has a working length diameter of about 6 mm,  
4.8 to 10.2 mm when the balloon has a working length diameter of about 7 mm,  
6.2 to 11.4 mm when the balloon has a working length diameter of about 8 mm,  
6.7 to 13.3 mm when the balloon has a working length diameter of about 9 mm,  
8.1 to 15.2 mm when the balloon has a working length diameter of about 10 mm,  
9.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,  
9.9 to 19.1 mm when the balloon has a working length diameter of about 12 mm,  
11.2 to 22.9 mm when the balloon has a working length diameter of about 14 mm, [[and]] or  
13.3 to 25.4 mm when the balloon has a working length diameter of about 15 mm.  
2. (canceled).

3. (currently amended) The dilation catheter of claim 1, where the radius is from:

1.3 to 3.3 mm when the balloon has a working length diameter of about 3 mm,  
2.5 to 4.7 mm when the balloon has a working length diameter of about 4 mm,  
3.2 to 6.4 mm when the balloon has a working length diameter of about 5 mm,  
4.7 to 8.3 mm when the balloon has a working length diameter of about 6 mm,  
6.4 to 10.2 mm when the balloon has a working length diameter of about 7 mm,  
8.3 to 11.4 mm when the balloon has a working length diameter of about 8 mm,  
8.9 to 13.3 mm when the balloon has a working length diameter of about 9 mm,  
10.8 to 15.2 mm when the balloon has a working length diameter of about 10

mm,

12.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,

13.3 to 19.1 mm when the balloon has a working length diameter of about 12 mm,

14.9 to 22.9 mm when the balloon has a working length diameter of about 14 mm, [[and]] or

17.8 to 25.4 mm when the balloon has a working length diameter of about 15 mm.

4. (currently amended) The dilation catheter of claim 1, where the radius is:  
about 2.5 mm when the balloon has a working length diameter of about 3 mm,  
about 3.2 mm when the balloon has a working length diameter of about 4 mm,  
about 4.7 mm when the balloon has a working length diameter of about 5 mm,  
about 6.4 mm when the balloon has a working length diameter of about 6 mm,  
about 8.3 mm when the balloon has a working length diameter of about 7 mm,  
about 8.9 mm when the balloon has a working length diameter of about 8 mm,  
about 10.8 mm when the balloon has a working length diameter of about 9 mm,  
about 12.1 mm when the balloon has a working length diameter of about 10 mm,  
about 13.3 mm when the balloon has a working length diameter of about 11 mm,  
about 14.9 mm when the balloon has a working length diameter of about 12 mm,

about 17.8 mm when the balloon has a working length diameter of about 14 mm,  
[[and]] or

about 19.1 mm when the balloon has a working length diameter of about 15 mm.

5-11. (canceled).

12. (previously presented) The dilation catheter of claim 1, where the proximal working length-to-taper radius is substantially equal to a distal working length-to-taper radius.

13. (previously presented) The dilation catheter of claim 1, where a proximal taper-to-neck radius, the proximal working length-to-taper radius, a distal taper-to-neck radius, and a distal working length-to-taper radius are substantially equal.

14. (previously presented) The dilation catheter of claim 1, where a proximal taper-to-neck radius and a distal taper-to-neck radius are substantially equal to each other.

15. (previously amended) The dilation catheter of claim 14, where the proximal working length-to-taper radius and a distal working length-to-taper radius are different from the proximal taper-to-neck radius and the distal taper-to-neck radius.

16. (previously presented) The dilation catheter of claim 1, where the proximal working length-to-taper radius and a distal working length-to-taper radius are different.

17-21. (canceled).

22. (currently amended) A method of reducing the force required to remove a dilation catheter from a conduit, comprising:

- (a) inserting the dilation catheter through the conduit, so a medical balloon disposed on the catheter emerges from the conduit, wherein the dilation catheter includes an elongate catheter body, the medical balloon comprising:
- a proximal region and a distal region;
  - a balloon working length intermediate the proximal region and the distal region;
  - a proximal working length-to-taper transition;
- wherein the proximal working length-to-taper transition comprises a radius before inflation from:
- 0.97 to 3.3 mm when the balloon has a working length diameter of about 3 mm,
  - 1.8 to 4.7 mm when the balloon has a working length diameter of about 4 mm,
  - 2.4 to 6.4 mm when the balloon has a working length diameter of about 5 mm,
  - 3.5 to 8.3 mm when the balloon has a working length diameter of about 6 mm,
  - 4.8 to 10.2 mm when the balloon has a working length diameter of about 7 mm,
  - 6.2 to 11.4 mm when the balloon has a working length diameter of about 8 mm,
  - 6.7 to 13.3 mm when the balloon has a working length diameter of about 9 mm,
  - 8.1 to 15.2 mm when the balloon has a working length diameter of about 10 mm,
  - 9.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,
  - 9.9 to 19.1 mm when the balloon has a working length diameter of about 12 mm,
  - 11.2 to 22.9 mm when the balloon has a working length diameter of about 14 mm, [[and]] or
- 13.3 to 25.4 mm when the balloon has a working length diameter of about 15 mm;
- (b) inflating the balloon by providing a fluid to a catheter lumen in fluid communication with the balloon;
  - (c) deflating the balloon; and
  - (d) applying a force to the dilation catheter, so the balloon is withdrawn through the conduit.

23. (canceled).

24. (currently amended) The method of claim 22, where the radius is from:

1.3 to 3.3 mm when the balloon has a working length diameter of about 3 mm,  
2.5 to 4.7 mm when the balloon has a working length diameter of about 4 mm,  
3.2 to 6.4 mm when the balloon has a working length diameter of about 5 mm,  
4.7 to 8.3 mm when the balloon has a working length diameter of about 6 mm,  
6.4 to 10.2 mm when the balloon has a working length diameter of about 7 mm,  
8.3 to 11.4 mm when the balloon has a working length diameter of about 8 mm,  
8.9 to 13.3 mm when the balloon has a working length diameter of about 9 mm,  
10.8 to 15.2 mm when the balloon has a working length diameter of about 10 mm,  
mm,  
12.1 to 17.1 mm when the balloon has a working length diameter of about 11 mm,  
mm,  
13.3 to 19.1 mm when the balloon has a working length diameter of about 12 mm,  
mm,  
14.9 to 22.9 mm when the balloon has a working length diameter of about 14 mm, [[and]] or  
17.8 to 25.4 mm when the balloon has a working length diameter of about 15 mm.

25. (currently amended) The method of claim 22, where the radius is:  
about 2.5 mm when the balloon has a working length diameter of about 3 mm,  
about 3.2 mm when the balloon has a working length diameter of about 4 mm,  
about 4.7 mm when the balloon has a working length diameter of about 5 mm,  
about 6.4 mm when the balloon has a working length diameter of about 6 mm,  
about 8.3 mm when the balloon has a working length diameter of about 7 mm,  
about 8.9 mm when the balloon has a working length diameter of about 8 mm,  
about 10.8 mm when the balloon has a working length diameter of about 9 mm,  
about 12.1 mm when the balloon has a working length diameter of about 10 mm,  
about 13.3 mm when the balloon has a working length diameter of about 11 mm,  
about 14.9 mm when the balloon has a working length diameter of about 12 mm,  
about 17.8 mm when the balloon has a working length diameter of about 14 mm,  
[[and]] or

about 19.1 mm when the balloon has a working length diameter of about 15 mm.

26. (canceled).